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- 1. A battery electrode made of a carbon-carbon composite material in which vapor-phase growth carbon fibers are uniformly dispersed in a carbon matrix.
- 2. A battery electrode according to Claim 1, wherein said vapor-phase growth carbon fibers are subjected to graphitization.
- 3. A battery electrode according to Claim 1, wherein a precursor of said carbon matrix is a synthetic resin.
- 4. A battery electrode according to Claim 1, wherein a formulation amount of said vapor-phase growth carbon fibers is 30-90 weight %.
- 5. A battery electrode according to Claim 1, wherein a formulation amount of said vapor-phase growth carbon fibers is 50-80 weight %.
- 6. A battery electrode according to Claim 1, wherein said carbon-perbon composite material is subjected to graphitization.
- 7. A method for producing the battery electrode as set forth in Claim 1, comprising:

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intermixing a synthetic resin with vapor-phase growth carbon fibers to make said vapor-phase growth carbon fibers uniformly dispersed in said synthetic resin to obtain a mixture;

molding said mixture into a predetermined shape to obtain a molded product; and

heating said molded product at high temperature to convert it into a carbon-carbon composite.

- 8. A method for producing the battery according to Claim 7, further comprising a step of graphitizing said vapor-phase growth carbon fibers.
- 9. A method for producing the battery according to Claim 7, wherein said heating step at high temperature includes carbonization and graphitization.
- 10. A battery comprising:
  - a positive electrode formed of the electrode as set forth in Claim 1;
    - a negative electrode; and
  - an electrolyte into which said positive electrode and said negative electrode are immersed.
  - 11. A battery according to claim 10, wherein said negative electrode is made of a carbon-carbon composite

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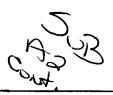
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material in which vapor-phase growth carbon fibers are uniformay dispersed in a carbon matrix.

A battery according to Claim 10, wherein said 12. negative electrode is a metal lithium plate.

- 13. A battery according to Claim 10, wherein said battery is a lithium secondary battery.
- 14. A batter according to Claim 13, wherein said electrolyte contains lithium perchlorate.
- 15. A battery acording to Claim 10, wherein said vapor-phase growth carbon fibers are subjected to graphitization.
  - 16. A battery according to Claim 10, wherein a precursor of said carbon matrix is a synthetic resin.
- 17. A battery according to Claim 10, wherein a formulation amount of said vapor-hase growth carbon fibers is 30-90 weight %.
  - 18. A battery according to Claim 10, wherein a formulation amount of said vapor-phase growth carbon fibers is 50-80 weight %.



19. A battery according to Claim 10, wherein said carbon-carbon composite material is subjected to graphitization.

Add A3